



Section of the vessel with internal finned heat exchanger .36 Cavity 10°C 0 C Temperature along the fin X T 0 C

Temperature across the cavity

X

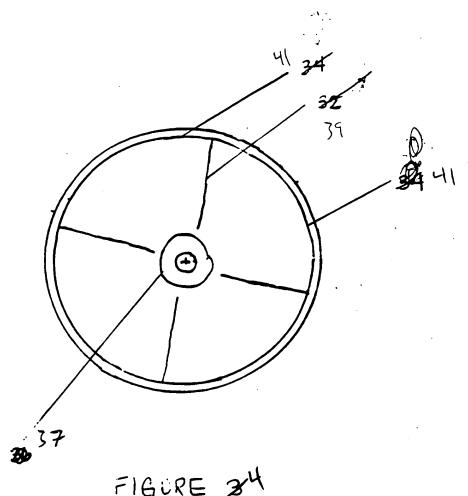
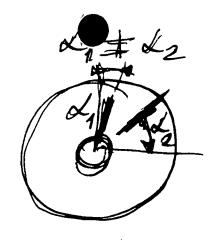
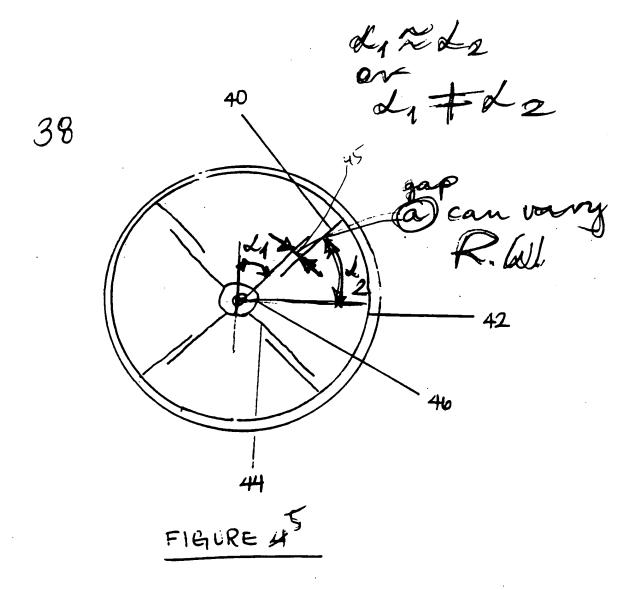


FIGURE 34





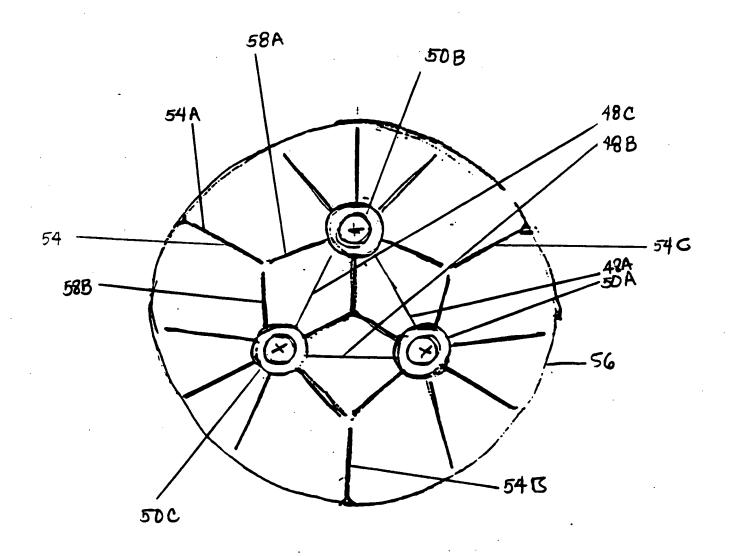
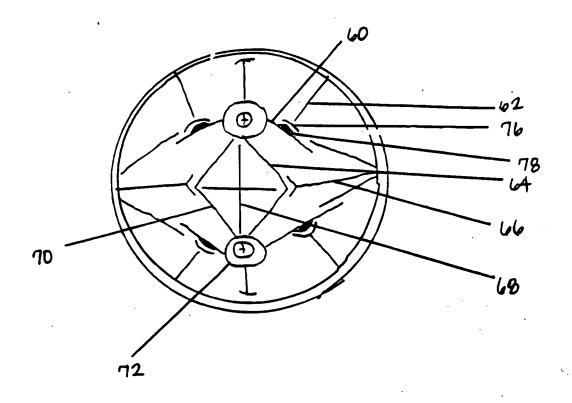


FIGURE 8



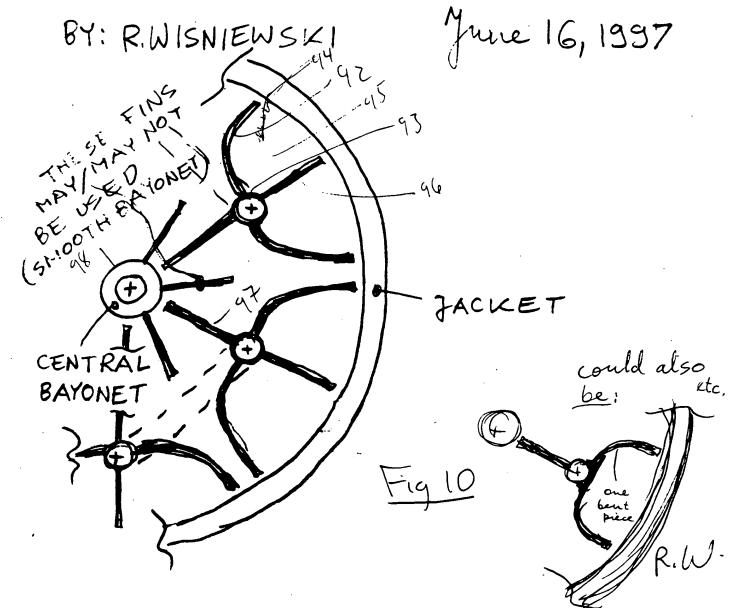
FIGURE

(plus) F) Other combinations

(plus) F) Other sakes of the R.W.

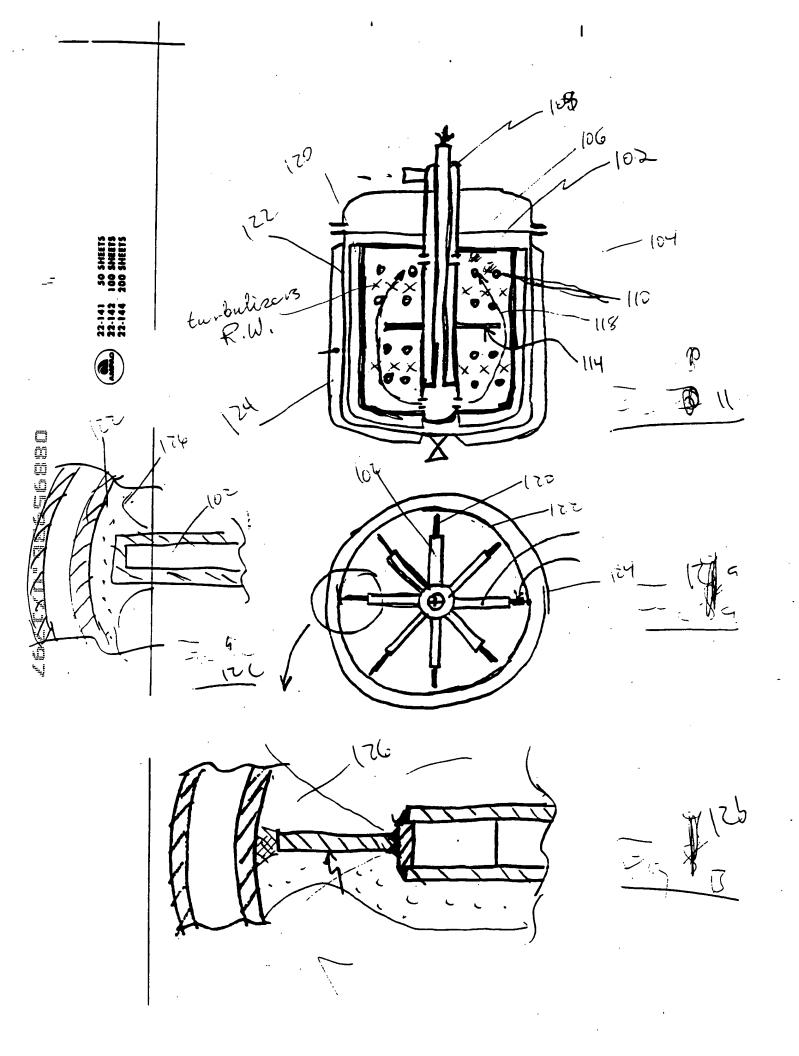
etc., R.W.

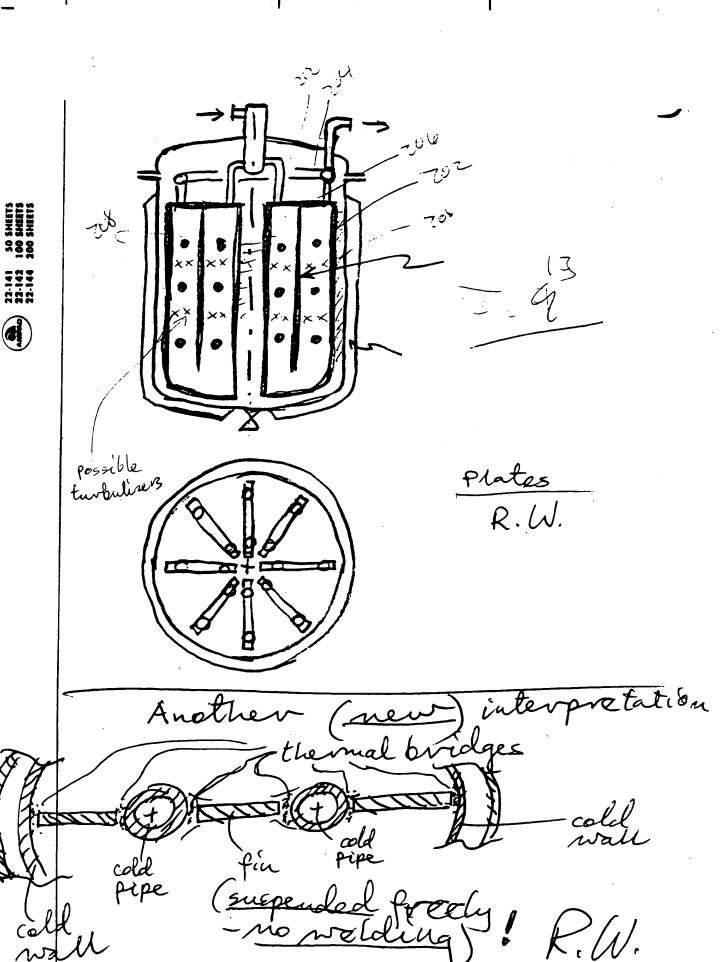
revel: Include in descriptions us with a change in thickness ith a change Attorney Docket No. 17882.702 essel with Hollow Fins and Baffles Inventor: Richard Wisneiwski Ciald of the Invention rofiled Casted inser



CONCEPT OF CREATING
COMPARTMENTS USING
BENT FINS.

Richard Wismewskii



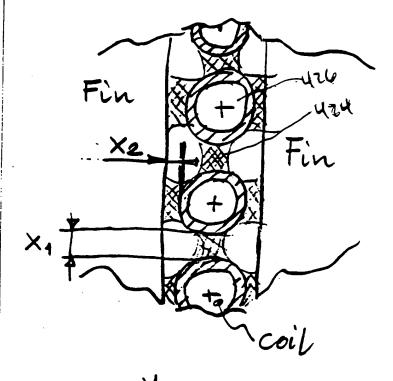


68 Fry 6

between pipes and 308 R.W. Ext, fins 3014 Do include other than round pipes (oval, etc. Vessel facket etc.

essel. 460 Bayonet 000000000000 0 O O 0 00000 00 Jacket 0 400 Middle Coil 408 coilude Joz. 406 - - NON <u>_410</u> 412 Jacket Fy 156 Fins (double R.W. bridging

bridges



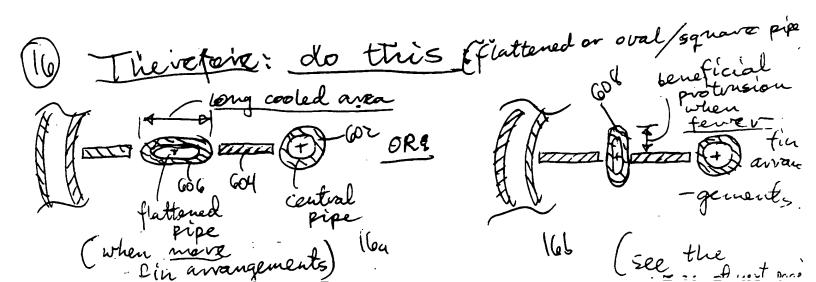
120

X1, ×2-apr

189

flattened/oval/squerie.

in spivaled pipes (plans)
they can be flattened in
staggered pattern
staggered pattern
flat vound



Flattened/poval/square pipes: Advantage of such pipes 41/-0-0 > longer (A) dimen--sion > better Compartment i zation many fin fewer fin assemblies "longer" a reas (Lz large) directly cooled! assemblies (Lysmall) Also - flattened oval/ggnare
pipes with welded fins
e.g. and oval/ggnare (or casted etc.)

flatte ned/oval/square (spiral/will unde of = uniform Flattened/shaped distance (while pipes could be for round further expland (fewer for example: a combination: -this distance can be Smaller fing! pipes pipe - exten bette Romboidal (diamend) freezing pattern Fin Fin Purpose - if centain Compartmentization be done in large vessels.